

Amino acid sequence:

SEQ ID NO:4

MEPPTSHVTNAFSDSDSASVEEGDADADADVEALRRLSDNLAAAFRSPEDFAFL
ADARIAVPGGGGGGDLRVHRCVLSARSPFLRGVFARRAAAAAGGGGEDGSELELRELLGGGG
EEVEVGYEALRLVLDYLYSGRVGDLPKAACLCVDEDCAHVGCHPAVAFMAQVLFMASTFQVAEL
TNLFQRRLLDVLVDKVEVDNLLLILSVANLCNKSCKMLLERCLDMVVRNLDMITLEKSLPPDVIKQ
IIDARLSGLISPENKGFNKHVRRIRALDSDDELVRMLLLEGQTNLDDAFALHYAVEHCDSKIT
TELLDLALADVNHRNPRGYTVLHIAARRREP KIIIVSLTKGARPADVTFDGRKAVQISKRLTKQGD
YFGVTEEGKPSPKDRLCIEILEQAERRDPQLGEASVSLAMAGESLRGRLLYLENRVALARIMFPME
ARVAMDIAQVDGTLEFNLGSGANPPPERQRTTVDLNESPFIMKEEHLARMTALSKTVELGKRFFPR
CSNVLDKIMDETDPVSLGRDTSAEKRKRFDLQDV LQKAFHEDKEENDRSGLSSSSSSSTSIGAIRP
RR

NPR1 homologue 2 (NH2)

SEQ ID NO:5

Nucleotide sequence:

TACAATACAAAGATGGAGCAAGGCCAAGAGTCAAACAAAGACAGGTTATGT
ATTGATATATTAGATAGGGAGATGATAAGGAAACCTATGGCAGTGGAAGATTCTGTCACCTCG
CCTTTGTTGGCTGACGATCTTCACATGAAGCTTCTACCTTGAAAACAGAGTTGCATTTGCAA
GATTATTTTTTCTGTCAGAAGCAAAGGTTGCAATGCAAAATTGCACAAGCAGACACCACACCAG
AATTTGGCATTGTTCTGTCAGCTAGCACTTCTGGAAAATTGAAGGAAGTCGATCTGAACGAGA
CACCAGTAACACAAAAACAAAAGGCTCCGTTCAAGGGTGGATGCACTCATGAAAACAGTTGAG
CTGGGACGTCGCTACTTCCCTAACTGCTCGCAGGTGCTCGACAAATTTCTGGAGGATGATTTGC
CCGATAGTCCTGATGCACTCGACCTCCAAAATGGCACTTCTGATGAGCAAAATGTTAAAAGGA
TGCGGTTCTGTGAGTTAAAGGAGGATGTGCGCAAGGCATTGAGCAAAAGACAGAGCTGATAAT
AGCATGTTTTCTATCTTGTCTATCTTCATCGTCTCTTCGCCACCTCCCAAGGTTGCAAAAGAAAT
GACAGAAGTTTTGTAACAAATTTCCGCTCGTGATGTTACTGGGACAAGAGATATCGATCAATA
GACCTGTATAGTCTTACAGTGGTATAACAATTAGATATCGAAGCTTCTTCGAATATTAGAAAAG
TGCTGTTCTGGGCTGCACTCAGCTGGTTTATGGGACCCATGCGGTGAAACTGGCAAAAGAAAA
CCAGCTGATTAGAGGCTCCAAAGTAGTGTCTCTCGTGAATATGTTTGTAGCATTCTGTTTTGTT
CAGGATGGCTGTAATGATAAAATCTTTTCAATAGATATATAGCTAATTGTCTCGTAAAAAAA
AAAAAAAAAAAAAAAA

SEQ ID NO:6

Amino acid sequence:

YNTKMEQGQESNKDRLCIDILDREMIRKPMAVEDSVTSPLLADDLHMKLLYLEN
RVAFARLFFPAEAKVAMQIAQADTTPEFGIVPAASTSGKLKEVDLNETPVTQNKRLRSRVDALMK
TVELGRRYFPNCSQVLDKFLEDDLPDSDALDLQNGTSDEQNVKRMRFCEKEDVRKAFSKDRAD
NSMFSILSSSSSSPPPKVAKK

3. Nucleolin-like protein

SEQ ID NO:7

Nucleotide sequence:

GATGATAGAGTACCACTACCTAGTTCAAATGGAGCTCCATTGCTCCCGAGTTA
TCCTCCACTTGATATGGTATCATGTGTCAGTACCAGGTGCTATGGTGCTGCTCCTGCTAGTACT
GCACAGCCTATGCTGTATGCTCCAAGAGCTCCTCCAGGGGCAGCAATGGTTCCAATGATGTTA
CCGGATGGTCATCTCGTATATGTTGTACAACAGCCTGGTGGACAGTTGCCGCTGGCTTCGCCGC
CGCCGCAGCAAGCTGGACATCGTAGCGGCAGTGGAGGACGTCATGGCGGCAGTGGCAGCCGC
TATGGCGGTGGTGGTGGCAGCTCCGGCAGTAGCAGGCCCGGTGCAAAACGGCAGAGAGGAGA
TGACAACAGCAGTAGCCGCCACAAAGGCCGGCGCCGCGTACTGATCTGATCAGCATAGCTGT
AGCTACCACTTAGAAGATGTAGTCCGCTCGCAGAAAATTACCAGAAAATCTGGTAGAAATAAT
TTATACTGTTTGTACTCATCGATTTATTAGAAGAATTCGTTTCTGAAACAAGACTGTACATGCG
TATTTACCAGTATTTTCCAATATCGCAGAATTGCTGAAAAAAA

SEQ ID NO:8

Amino acid sequence:

DDRVPLPSSNGAPLLPSYPPLGYGIMSVPGA YGAAPASTAQPMLYAPRAPPGAA
MVPMMPLPDGHLVYVVVQPGGQLPLASPPQQAHRSGSGGRHGGSGSRYGGGGGSSGSSRPGAK
RQRGDDNSSSRHKGRRRRRTDLISIAVATT

PREG-like protein
SEQ ID NO:9
Nucleotide sequence:

5 ATGGACGCCGCCGCGGCAGCGGGCGGCGAGATGTCGCGGCAGAAAGGCGACG
GCGTCGGCTCCGCCGCCGCGGAGCTGGACATGGTGGCGCGCGCCGTGCAGCGGCTGGTGGC
GCGGAACGACGCGGTGGAGGCGCTGAGCGGCGGAGGGGAGGCGGCGGGGGCTAGGAGCA
GGGATGGCGGCGTTCGAGGCGGCGAGGGGCGCGCCGCGCGCATCGGCGTGGCGCAGTA
10 TCTGGAGCGCGTGCACCGGTACGCCGGGCTGGAGCCGGAGTGCTACGTGGTGGCGTACGCGTA
CGTCGACATGGCGGCGCACCGCCGCCCGCCGCGCGCTCGCCTCCCGCAACGTCCACCGCCT
CCTCCTCGCCTGCCTCCTCGTCGCCTCCAAGGTTCTCGACGACTTCCACCACAACAACGCGTTC
TTCGCGCGCGTCCGGCGGCGTGAGCAACGCGGAGATGAACAGGCTGGAGCTGGAGCTCCTCGC
CGTGCTGGACTTCGAGGTCTGCTCAGCCACCGCGTCTACGAGCTCTACCACGAGCACCTCAA
15 GAAGGAGGCGCGGAGGGACGGCGGCGCGGCGACATGCTCGCCGGCGGCTCGGCCGCCGCCG
CCGCCAAGGCGGGGAGAATGGCGGCCGTCTCGCCGTCCAAGCTGCTGGAACGCGCGGCGGTG
AACGCGCGCGCGCAGCACGACGACTGGAGGAGCCTGGGTACGGCGGCGGCGGCGGAGGCGG
CGAACGCGGTGCGGCGGCACAGGTCGTCGTCGTCGTCGCGGTATTCCTTCGATTGCTAGTATA
GCCAGCGTTGCCAAAGAGCGCGTTCTGTGTGTATATATCAGGTTATCAACGAGAGTTTTTGAG
20 GCTGTAAAAAAATTAAAGACGGATTAATTACCTGCCAAAGTGCCAATTAGCAAATGTTTCCCA
TAAAAAAAAAAAAAAAAAAAAAAAAA

SEQ ID NO:10
Amino acid sequence:

MDAAAAAGGEMSRQKATASAPPPPELDMVARAVQRLVARNDAVEALSGGGEA
25 AAGLGAGMAAFEARGAPAPRIGVAQYLERVHRYAGLEPECYVVAYAYVDMAAHRRPAAAVAS
RNVHRLLLACLLVASKVLDDFHHNNAFFARVGGVSNAEMNRLELELLAVLDFEVMLSHRVYELY
HEHLKKEARRDGGAGDMLAGASAAAAAKAGRMAAVSPSKLLERA AVNGAAQHDDWRS LGTAA
AAEAANGVRRHRSSSSSRYSFDC

Novel protein
SEQ ID NO:11
Nucleotide sequence:

AGTGCTAGTGATGAAGCCCTTGCAAAAGCAGCATCTCTGTATGGAGGTGCTCT
AAGAAATGTTGAGAAAGAGTACGAAGAATTTAATAGAATTTTATCTTCTCAGACTATAGATCC
35 ATTGAGGGCTATGGCTGCAGGCGCTCCCCTGGAAGATGCTCGTGGTCTTGACAACGTTATAG
CCGGATGAGACATGAAGCTGAGATCCTTTCTGCTGAAATTGCTAGAAGGAAGCAACGGGTAC
GAGAAGCTCCAGTTGCTGAGCACACTACGAAGCTTCAACAGTCTGAATCTAAAATGATAGAGC
ACAAAGCAAGCATGGCTGTGTTAGGAAAGGAAGCTGCTGCTGCACTTGCCGCTGTTGAATCTC
AGCAGCAAAGGATAACTCTTCAGCGCCTGGTTGGCATGGTAGAAGCAGAAAAGTTATTTTCATT
40 TGAGGTTAGCTGCTATACTTGATGATGTTGAAGCTGAGATGTCCTCTGAAAAGCAAAAGAGAG
AATCTGCACCGCTACTATTCTCATAAGCGTGCTGAGAAGGCCCAAGTACTTCCTTGCTGA
GGCGGTGCATAACTTCAATGGTACCACAGAAAAGGAGTTGAGTTTAATTGTGGTGATTATGTC
G

SEQ ID NO:12
Amino acid sequence:

SASDEALAKAASLYGGALRNVEKEYEEFNRLSSQTIDPLRAMAAGAPLEDARGL
AQRYSRMRHEAEILSAEIARRKQRVREAPVAEHTTKLQSES KMIEHKASMAVLGKEAAAALAAV
50 ESQQQRITLQRLVGMVEAEKLFHLRLAAILDDVEAEMSSEKQKRESAPPTIHSKRAEKAQYFLAE
AVHNFNGTTEKELSLIVVIMS

[illegible]

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SEQ ID NO:19: MN1 cDNA

5 ATGGCAGATGCTAGTTCAAGGACTGACACATCGATTGTTGTAGACAACGACGACAAAAACCA
 CCAGTTAGAAAACGGACATAGTGGTGCAGTCATGGCTTCTAACTCTTCAGATAGATCTGACAG
 ATCTGACAAACTTATGGACCAAAAAGACAATGCGGCGGCTTGCTCAAAATCGTGAGGCAGCAA
 GAAAAAGTCGGCTGAGGAAAAAGGCATATGTGCAACAACTAGAGAGCAGTAAGCTGAAGCT
 TGCACAGCTAGAGCAGGAACCTTCAGAAAGCTCGTCAGCAGGGAATCTTCATCTCTAGCTCTGG
 AGACCAGACCCATGCCATGAGTGGAATGGGGCATTGACTTTTGACTTAGAATACACTAGAT
 10 GGCTCGAGGAGCAAAATAAGCAGATAAATGAGTTGAGGACAGCAGTGAATGCTCATGCAAGT
 GACAGTGACCTTCGTCTTATTGTTGATGGCATAATGGCGCATTATGACGAGGTATTCAAGGT
 AAGGGTGTAGCTGCAAAGGCCGATGTGTTTCATATACTTTCAGGCATGTGGAAGACACCCGCA
 GAAAGATGCTTCCTGTGGCTTGGTGGTTTCCGTCCATCTGAGCTTCTAAAGCTCCTAGCAAATC
 ACCTCGAACCTTTAACCGAGCAGCAGTTGCTGGGATTAAACAACCTCCAGGAATCTTCTCAGC
 15 AGGCGGAGGATGCACTTTCACAAGGTATGGAAGCACTGCAGCAATCTCTGGCAGATACTTTG
 GCTGGATCTCTCGCTTCATCAGGGTCTTCTGGGAATGTGGCGAACTACATGGGTCAGATGGCA
 ATGGCCATGGGTAAACTAGGAACGCTCGAGAATTTCTTTGCCAGGCGGACAACCTGCGACA
 GCAGACATTGCATCAAATGCAACGAATTCTGACGATCCGGCAAGCCTCGCGTGCTCTTCTTGC
 CATAACGATTACTTTTACGCTTGCGTGCTTTGAGTTCGCTGTGGCTTGCTAGGCCACGGGAG
 TAA

SEQ ID NO:20 MN1 polypeptide

20 MADASSRTDTSIVVDNDDKNHQLENGHSGAVMASNSSDRSDRDKLMDQKTMRRLAQNREAAR
 KSRLRKAYVQQLESSKLKLAQLEQELQKARQQGIFISSSGDQTHAMSGNGALTDFLEYTRWLEE
 25 QNKQINELRTAVNAHASDSDLRLIVDGIMAHYDEVFKVKGVAAKADV FHILSGMWKTPAERCFL
 WLGGFRPSELLKLLANHLEPLTEQQLGLNNLQESSQQAEDALSQGMEALQQSLADTLAGSLASS
 GSSGNVANYMGQMAMAMGKLTLENFLCQADNLRQQTLHQMQRILTIRQASRALLAIHDYFSRL
 RALSSLWLARPRE